

What is claimed is:

1. A device, comprising:

a reference voltage generator having a first supply input node adapted to be coupled to a common mode voltage of an amplifier and a second supply input node adapted to be coupled to a second supply voltage, the reference voltage generator being adapted to generate a ramp voltage; and

a voltage selector coupled to the reference voltage generator, the voltage selector being adapted to receive as inputs the ramp voltage and at least one of the common mode voltage and the second supply voltage and being adapted to select one of the inputs of the voltage selector to couple to a first input node of the amplifier.

2. The device of claim 1, further comprising an input signal coupling switch adapted to selectively couple an input signal to a second input node of the amplifier.

3. The device of claim 2, wherein the first and second input nodes of the amplifier are positive and negative input nodes of the amplifier.

4. The device of claim 1, wherein the voltage selector comprises:

a reference voltage coupling switch adapted to selectively couple the ramp voltage to the first input node of the amplifier;

a common mode voltage coupling switch adapted to selectively couple the common mode voltage to the first input node of the amplifier; and

a second supply voltage coupling switch adapted to selectively couple the second supply voltage to the first input node of the amplifier.

5. The device of claim 4, wherein the reference voltage generator comprises a capacitor adapted to be selectively coupled to the first input node of the amplifier through the reference voltage coupling switch.

6. The device of claim 1, wherein the reference voltage generator is adapted to generate at least one of a rising ramp voltage that ramps up to substantially the common mode voltage and a falling ramp voltage that ramps down to substantially the second supply voltage.

7. The device of claim 4, further comprising at least one control unit adapted to control the reference voltage generator to generate a rising ramp voltage and adapted to close the reference voltage coupling switch during a power-up of the device.

8. The device of claim 7, wherein the at least one control unit is adapted to open the reference voltage coupling switch and adapted to close the common mode voltage coupling switch after a period of time during the power-up.

9. The device of claim 1, further comprising at least one control unit adapted to control the reference voltage generator to produce a falling ramp voltage during a power-down of the device.

10. A system, comprising:  
an amplifier having a first input node, a second input node adapted to receive an input signal and an output node;  
an output device coupled to the output node of the amplifier; and  
a voltage selector having a first supply input node adapted to be coupled to a common mode voltage of the amplifier and a second supply input node adapted to be coupled to a second supply voltage, the voltage selector being adapted to select among a ramp voltage and at least one of the common mode voltage and the second supply voltage to couple to the first input node of the amplifier.

11. The system of claim 10, further comprising a switch having a first end adapted to be coupled to the input signal and a second end adapted to be coupled to the second input node of the amplifier.

12. The system of claim 10, further comprising a second amplifier adapted to be coupled to the voltage selector and a second output device adapted to be coupled to an output node of the second amplifier.

13. The system of claim 10, wherein the input signal is an audio signal and the voltage selector is adapted to provide the ramp voltage to the amplifier to reduce pop noise during at least one of a power-up and a power-down of the system.

14. The system of claim 10, wherein the voltage selector is adapted to provide at least one of a rising ramp voltage that ramps up to substantially the common mode voltage and a falling ramp voltage that ramps down to substantially the second supply voltage.

15. The system of claim 14, further comprising at least one control unit adapted to control the voltage selector to produce the rising ramp voltage during a power-up of the system.

16. The system of claim 14, further comprising at least one control unit adapted to control the voltage selector to generate the falling ramp voltage during a power-down of the system.

17. A method, comprising:  
generating a ramp voltage by applying a common mode voltage of an amplifier and a second supply voltage to a reference voltage generator;  
coupling the ramp voltage to the amplifier for a period of time;  
decoupling the ramp voltage from the amplifier; and  
coupling a selected one of the common mode voltage and the second supply voltage to the amplifier after the period of time.

18. The method of claim 17, further comprising generating an output signal at an output node of the amplifier in response to the coupling of the ramp voltage to the amplifier.

19. The method of claim 17, wherein the generating the ramp voltage comprises generating at least one of a rising ramp voltage that ramps up to substantially the common mode voltage and a falling ramp voltage that ramps down to substantially the second supply voltage.

20. The method of claim 19, wherein the generating the ramp voltage further comprises generating the rising ramp voltage during a power-up operation.

21. The method of claim 19, wherein the generating the ramp voltage further comprises generating the falling ramp voltage during a power-down operation.

22. The method of claim 17, wherein the coupling of the selected one of the common mode voltage and the second supply voltage to the amplifier further comprises coupling the common mode voltage to the amplifier; and wherein the method further comprises generating a falling ramp voltage after coupling the common mode voltage to the amplifier.

23. The method of claim 17, further comprising selectively coupling an input signal to the amplifier.